

What is claimed is:

1. A method for fabricating a non-volatile memory device, comprising the steps of:

forming a gate pattern in which a first conductive layer is used as a floating gate, a second conductive layer is used as a control gate, the first conductive layer, a dielectric layer, and the second conductive layer are sequentially stacked on a semiconductor substrate;

forming a polishing stopper on the gate pattern and the semiconductor substrate;

forming an interlayer insulating layer on the polishing stopper;

forming a common source line (CSL) by etching a portion of the interlayer insulating layer, and a portion of the polishing stopper, and depositing a conductive material to the etched portions;

planarizing the common source line and the interlayer insulating layer until the surface of the polishing stopper is exposed;

partially etching back the polishing stopper until the surface of the second conductive layer is exposed; and

forming a silicide layer on the exposed second conductive layer and the common source line.

2. The method for fabricating a non-volatile memory device of claim 1,  
wherein an oxide layer is formed on the semiconductor substrate.

3. The method for fabricating a non-volatile memory device of claim 2,  
wherein the oxide layer is formed to a thickness of about 50 to about 200

4. The method for fabricating a non-volatile memory device of claim 1,  
wherein the first conductive layer and the second conductive layer is a doped  
polysilicon layer.

5. The method for fabricating a non-volatile memory device of claim 1,  
wherein the dielectric layer is a multi-layer comprising an oxide layer and a  
nitride layer.

6. The method for fabricating a non-volatile memory device of claim 1,  
wherein the dielectric layer is formed to a thickness of about 100 to about 200

7. The method for fabricating a non-volatile memory device of claim 1,  
wherein the gate pattern further comprises an insulating layer additionally formed  
on the second conductive layer.

8. The method for fabricating a non-volatile memory device of claim 7, wherein the insulating layer is formed with one of a mono-layer nitride layer and a multi-layer containing a nitride layer.

5 9. The method for fabricating a non-volatile memory device of claim 1, further including the step of forming spacers on side walls of the gate pattern.

10 10. The method for fabricating a non-volatile memory device of claim 9, wherein the spacers are formed with one of a mono-layer nitride layer and a multi-layer containing a nitride layer.

11. The method for fabricating a non-volatile memory device of claim 1, wherein the polishing stopper is made of a nitride layer.

15 12. The method for fabricating a non-volatile memory device of claim 1, wherein the interlayer insulating layer is an oxide layer or a multi-layer including an oxide layer.

20 13. The method for fabricating a non-volatile memory device of claim 1, wherein the conductive material for forming the common source line is made of polysilicon containing impurities.

14. The method for fabricating a non-volatile memory device of claim 1, wherein the step of etching back the polishing stopper is performed by a wet etching method using phosphoric acid.

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15. The method for fabricating a non-volatile memory device of claim 1, wherein the step of etching back the polishing stopper is performed by a dry etching method.

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16. The method for fabricating a non-volatile memory device of claim 1, wherein the silicide layer is a silicide selected from the silicide group consisting of cobalt silicide (CoSix), tungsten silicide (Wsix) and aluminum silicide (AlSix).

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17. The method for fabricating a non-volatile memory device of claim 1, wherein the non-volatile memory device is a NAND type flash memory.

18. A semiconductor non-volatile memory device formed by process steps comprising:

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forming a gate pattern on a semiconductor substrate, the gate pattern having first and second conductive layers and a dielectric layer therebetween;

forming a polishing stopper on the gate pattern and the semiconductor substrate;

forming an interlayer insulating layer on the polishing stopper;

forming a common source line (CSL) by etching a portion of the interlayer insulating layer, and a portion of the polishing stopper, and depositing a conductive material;

then, planarizing the common source line and the interlayer insulating layer until the surface of the polishing stopper is exposed;

partially etching back the polishing stopper until the surface of the second conductive layer is exposed; and

forming a silicide layer on the exposed second conductive layer and the common source line.